

App# No. 09/849,786
Amdt. dated June 10, 2005
Reply to Office action of March 11, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A communications module comprising:
a first section for processing data in accordance with at least a first communication standard, wherein processing data in accordance with at least a first communication standard includes at least one of modulating and demodulation the data, wherein said first section includes a connecting member for electrically connecting said first section with an external HOST processor; and
a second section for transmitting and receiving data via an antenna in accordance with the first communication standard, said second section detachable from the first section, wherein said second section is replaceable with a third section for transmitting and receiving data via an antenna in accordance with a second communication standard;
wherein the first section and second section are electrically connected via respective mating connecting members.
2. (Original) A communications module according to claim 1, wherein said first communication standard uses a first frequency band.
- Claim 3 (Cancelled)
4. (Original) A communications module according to claim 1, wherein said second communication standard uses a second frequency band.
5. (Cancelled)
6. (Original) A communications module according to claim 1, wherein said first section includes a Medium Access Control (MAC) processing system, and a physical layer (PHY) processing device.

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7. (Original) A communications module according to claim 6, wherein said first section includes at least one memory device.

8. (Cancelled)

9. (Previously Presented) A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radio frequencies and intermediate frequencies.

10. (Original) A communications module according to claim 9, wherein said second section includes a second circuit for converting a signal between intermediate frequencies and baseband frequencies.

11. (Currently Amended) A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radio frequencies and baseband frequencies.

12. (Original) A communications module according to claim 1, wherein said second section includes a low noise amplifier (LNA).

13. (Currently Amended) A communications module comprising:
a first section including means for processing data in accordance with at least a first communication standard, wherein processing data in accordance with at least a first communication standard includes at least one of modulating and demodulation the data, wherein said first section includes a connecting means for electrically connecting said first section with an external HOST processor; and

a second section including means for transmitting and receiving data via an antenna in accordance with the first communication standard, said second section detachable from the first section, wherein said second section is replaceable with a third section including means for transmitting and receiving data via an antenna in accordance with a second communication standard;

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wherein said first section and said second section are electrically connected via respective means for connecting.

14. (Original) A communications module according to claim 13, wherein said first communication standard uses a first frequency band.

Claim 15 (Cancelled)

16. (Original) A communications module according to claim 13, wherein said second communication standard uses a second frequency band.

17. (Cancelled)

18. (Original) A communications module according to claim 13, wherein said first section includes a Medium Access Control (MAC) processing system, and a physical layer (PHY) processing device.

19. (Original) A communications module according to claim 18, wherein said first section includes at least one means for storing data.

20. (Cancelled)

21. (Currently Amended) A communications module according to claim 13, wherein said second section includes first conversion means for converting signals between radio frequencies and intermediate frequencies.

22. (Original) A communications module according to claim 21, wherein said second section includes a second conversion means for converting a signal between intermediate frequencies and baseband frequencies.

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23. (Currently Amended) A communications module according to claim 13, wherein said second section includes conversion means for converting signals between radio frequencies and baseband frequencies.

24. (Original) A communications module according to claim 13, wherein said second section includes means for amplifying a signal.

25. (New) A communications module, comprising:
a first housing for housing a digital section of the communications module, the first housing comprises:
a first connecting member for electrically coupling the first section with an external HOST processor,
a second connecting member,
a physical layer processor coupled to the second connecting member, and
a media access control processor coupled to the physical layer processor and the first connecting member; and
a second housing for housing an RF section of the communications module, the second housing detachable to the first housing and comprises:
a connecting member for electrically coupling the second section to the second connecting member of the first section,
a circuit for converting between a baseband frequency and an RF frequency coupled to the connecting member, and
an antenna coupled to the circuit for converting between the baseband frequency and an RF frequency.

26. (New) A communications module according to claim 25, further comprising one of the group consisting of a non-volatile memory and a volatile memory coupled to the media access controller.

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27. (New) A communications module according to claim 25, the circuit for converting a baseband signal to an RF signal comprising:
a circuit for converting the baseband signal to an intermediate frequency coupled to the connecting member; and
a circuit for converting the intermediate frequency to the RF frequency coupled to the circuit for converting the baseband signal to the intermediate frequency.

28. (New) A communications module according to claim 27, the second section further comprising a low noise amplifier coupled between the circuit for converting the intermediate frequency to the RF frequency and the antenna.

29. (New) A communications module according to claim 25, the physical layer processor further comprising one of the group consisting of an analog to digital converter and a digital to analog converter.

30. (New) A communications module according to claim 25, wherein the baseband frequency of the circuit for converting between a baseband frequency and an RF frequency is coupled to the connecting member for electrically coupling the second section to the second connecting member of the first section, and the RF frequency of the circuit for converting between a baseband frequency and an RF frequency is coupled to the antenna.